

REPORT ON MACHINERY.

No. 13504
 Date, first Survey March 12th 1884 Last Survey August 22nd 1884
 Received at London THURSDAY 28 AUGUST 1884
 No. in Survey held at Sunderland
 Reg. Book. on the S.S. "Cortez"
 Master Baldo Built at Sunderland By whom built James Laing
 Engines made at Sunderland By whom made John Dickinson
 Boilers made at Sunderland By whom made John Dickinson
 Registered Horse Power 95 Owners Ines Roca & Co Port belonging to Barcelona
 When built 1884
 when made 1884
 when made 1884
 Tons 1261.2
 944.4

ENGINES, &c.—

Description of Engines V.C.S.C.D.A.
 Diameter of Cylinders 26" & 52" Length of Stroke 30" No. of Rev. per minute 60 Point of Cut off, High Pressure 1/2 stroke Low Pressure 1/2 stroke
 Diameter of Screw shaft 9 1/4" Diam. of Tunnel shaft 9" Diam. of Crank shaft journals 9 1/4" Diam. of Crank pin 9 1/4" size of Crank webs 10 3/4" x 6 1/2"
 Diameter of screw 13-0" Pitch of screw 14-0" No. of blades 4 state whether moveable not total surface 46 sq ft
 No. of Feed pumps 2 diameter of ditto 3 1/2" Stroke 16 1/2" Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 diameter of ditto 4 1/2" Stroke 16 1/2" Can one be overhauled while the other is at work yes
 Where do they pump from 4 one & main holds, engine room & after well
 No. of Donkey Engines one Size of Pumps 4 x 6" Where do they pump from 4 one & main holds
 engine room, after well & sea
 Are all the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible yes
 No. of bilge injections one and sizes 4" Are they connected to condenser, or to circulating pump Circulating pump
 How are the pumps worked By levers on forward engine
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the discharge pipes above or below the deep water line above
 Are they each fitted with a discharge valve always accessible on the plating of the vessel yes Are the blow off cocks fitted with a spigot and brass covering plate yes
 What pipes are carried through the bunkers none How are they protected
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock New vessel
 Is the screw shaft tunnel watertight no tunnel and fitted with a sluice door worked from Engine aft in stern of vessel

OILERS, &c.—

Number of Boilers 6 one Description 6 cylindrical dble ended Whether Steel or Iron steel
 Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 12-6-84
 Description of superheating apparatus or steam chest Horizontal dome, across boiler, below uptake of funnel
 Can each boiler be worked separately only one Can the superheater be shut off and the boiler worked separately no superheater
 No. of square feet of fire grate surface in each boiler 50 sq ft Description of safety valves direct spring No. to each boiler 2
 Area of each valve 12-56 sq in Are they fitted with easing gear yes No. of safety valves to superheater area of each valve
 Are they fitted with easing gear Smallest distance between boilers and bunkers or woodwork 15" Diameter of boilers 11-2 1/4"
 Length of boilers 15-0" description of riveting of shell long. seams treble lap circum. seams dble lap Thickness of shell plates 3/8"
 Diameter of rivet holes 1 1/4" whether punched or drilled drilled pitch of rivets 4 1/2" Lap of plating 9"
 Percentage of strength of longitudinal joint 72% working pressure of shell by rules 111 lbs size of manholes in shell 16 x 12"
 Size of compensating rings 6 x 11" No. of Furnaces in each boiler 4
 Outside diameter 3-3" length, top 6-0" bottom 9-0" thickness of plates 15" x 19" description of joint dble butt straps if rings are fitted yes
 Greatest length between rings 9-0" working pressure of furnace by the rules 90 lbs combustion chamber plating, thickness, sides 1/2" back none top 1/2"
 Pitch of stays to ditto, sides 8 x 8" back none top 8 x 8" If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 120 lbs
 Diameter of stays at smallest part 1 1/2" working pressure of ditto by rules 92 lbs end plates in steam space, thickness 1 1/2"
 Pitch of stays to ditto 15 1/2" x 15 1/2" how stays are secured nuts working pressure by rules 98 lbs diameter of stays at smallest part 2 1/8"
 Greatest pitch of stays working pressure by rules 99 lbs Front plates at bottom, thickness 3/4" Back plates, thickness none
 Plates, front 13" back 3/4" how stayed stay tubes pitch of stays 8 x 11 1/4" width of water spaces 1-6"
 Diameter of Superheater or Steam chest 4-0" length 10-0" thickness of plates 3/8" description of longitudinal joint dble riv lap diam. of rivet holes 3/4"
 Pitch of rivets 2 1/2" working pressure of shell by rules 109 lbs diameter of flue thickness of plates If stiffened with rings
 Distance between rings working pressure by rules end plates of superheater or steam chest; thickness 3/8" how stayed dished to a radius
 of 2-3" & one stay 2 1/2" diam effective Superheater or steam chest; how connected to boiler by a neck 16" x 16" x 5/8" or flange

DONKEY BOILER— Description *Vertical with three cross tubes*
Made at *Sunderland* by whom made *Messrs Holford Bros* when made *4-7-84* where fixed *Upper deck*
Working pressure *60 lbs* tested by hydraulic pressure to *120 lbs* No. of Certificate *460* fire grate area *15 sq ft* description of safety
valve *Direct spring* No. of safety valves *one* area of each *9.62 sq ft* if fitted with easing gear *yes* if steam from main boilers can
enter the donkey boiler *no* diameter of donkey boiler *5-3"* length *12-0"* description of riveting *Double riveted*
Thickness of shell plates *3/8"* diameter of rivet holes *3/4"* whether punched or drilled *punched* pitch of rivets *3"* lap of plating *3 3/4"*
per centage of strength of joint *45%* thickness of crown plates *7/16"* stayed by *4 stays 1 1/2" diam & uptake also dished to a radius of 5-0"*
Diameter of furnace, top *3-9"* bottom *4-6"* length of furnace *4-9"* thickness of plates *7/16"* description of joint *lapsingle rivet*
Thickness of furnace crown plates *7/16"* stayed by *4 stays 1 1/2" diam & uptake, dished to a radius of 5-0"* working pressure of shell by rules *49 lbs*
Working pressure of furnace by rules *64 lbs* diameter of uptake *15"* thickness of plates *3/8"* thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:— *2 Connecting rod top & 2 bottom end bolts & nuts*
2 main bearing bolts. 1 set of coupling bolts. one set of feed & bilge pump
valves. one slide valve spindle. one escape valve spring. bolts. nuts & non
asorted

The foregoing is a correct description,


FOR JOHN DICKINSON

Manufacturer.

H. Dickinson

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engines and boilers of this vessel have been con-
structed under special survey. The material and workmanship
are good and efficient and the engines when tried under stea
worked satisfactorily

In my opinion the machinery of this vessel is in good order
and safe working condition and eligible for the notification
in the Register Book of  *LLOYD'S. M.C. 8. 84.*

It is submitted that this vessel
is eligible to have the
notification & in &
& is recorded.

26/8/84

The amount of Entry Fee £ *1* : *0* : *0* received by me,

Special £ *14* : *5* : *0*

Donkey Boiler Fee £ *1* : *0* : *0*

Certificate (if required) £ *26 Aug 1884*

To be sent as per margin.

(Travelling Expenses, if any, £ *—*)

Committee's Minute

FRIDAY 29 AUGUST 1884

Paul Salmon
Engineer-Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation